

***IN THE UNITED STATES PATENT AND TRADEMARK OFFICE***

Applicant: Masahiro IWADARE

Title: FAST CALCULATION  
APPARATUS FOR CARRYING OUT  
A FORWARD AND AN INVERSE  
TRANSFORM

Appl. No.: Application for reissue of U.S.  
Patent No. 5,218,561, granted  
June 8, 1993

Examiner: Unassigned

Art Unit: Unassigned

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Commissioner for Patents  
Box: REISSUE  
Alexandria, Virginia 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicant, through his attorneys, brings to the attention of the Examiner the information and documents listed on the attached PTO/SB/08. Copies of the listed documents are attached. The Applicant respectfully requests that the Examiner consider the listed documents and evidence that consideration by making appropriate notations on the attached form.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicant does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the filing date of the application.

**RELEVANCE OF EACH DOCUMENT**

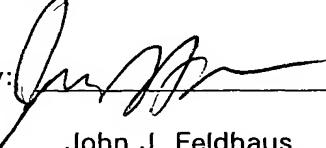
English translations of the foreign-language documents are not readily available. However, the absence of such translations does not relieve the PTO from its duty to consider the submitted foreign language documents (37 CFR §1.98 and MPEP §609). English Abstracts are attached for documents A1 and A2.

In regards to citation A8, the thesis by Thomas Duncan Lookabaugh, Applicant respectfully requests that the Examiner consider this reference on its merits even if no definitive publication date can be determined.

Applicant respectfully requests that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

By: 

John J. Feldhaus  
Attorney for Applicant  
Registration No. 28,822

Date: August 19, 2003

FOLEY & LARDNER  
Customer Number: 22428



22428

PATENT TRADEMARK OFFICE

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Substitute for form 1449B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Date Submitted: August 19, 2003 (use as many sheets as necessary)				<b>Application Number</b> <b>Filing Date</b> <b>First Named Inventor</b> <b>Group Art Unit</b> <b>Examiner Name</b>	Unassigned Concurrently Herewith Masahiro IWADARE Unassigned Unassigned
Sheet	1	of	1	Attorney Docket Number	069974-0140

<b>U.S. PATENT DOCUMENTS</b>						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			

<b>FOREIGN PATENT DOCUMENTS</b>								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	A1	DE	3506912	A1	TELEFUNKEN FERNSEH & RUNDFUNK (TELE); THOMSON CONSUMER ELECTRONICS INC. (THOH)			
	A2	DE	3621513	A1	TELEFUNKEN FERNSEH & RUNDFUNK (TELE)			

<b>NON PATENT LITERATURE DOCUMENTS</b>							
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.					T <sup>6</sup>
	A3	Henrique S. Malvar, "Lapped Transforms for Efficient Transform/Subband Coding", IEEE Transactions on Acoustics, Speech, and Signal Processing, Vol. 38, No. 6 (June 1990) pp. 969-978					
	A4	Madihally J. Narasimha and Allen M. Peterson, "On the Computation of the Discrete Cosine Transform", IEEE Transactions On Communications, Vol. Com-26, No. 6 (June 1978) pp. 934-936					
	A5	Thomas Duncan Lookabaugh, "Variable Rate and Adaptive Frequency Domain Vector Quantization of Speech" A Dissertation Submitted To The Department of Electrical Engineering and the Committee on Graduate Studies of Stanford University (June 1988)					
	A6	J.P. Princen, A.W. Johnson and A.B. Bradley, "Subband/Transform Coding Using Filter Bank Designs Based on Time Domain Aliasing Cancellation", IEEE (1987) pp. 2161-2164					

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, PO Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.